

WHAT IS CLAIMED IS:

1. An image processing condition setting apparatus for determining an image processing condition defining contents of an image processing to set up the image processing condition to an image processing apparatus for executing the image processing in accordance with the determined image processing condition, said image processing condition setting apparatus comprising:

10           an image obtaining section for obtaining an image according to an original image to be subjected to an image processing in said image processing apparatus;

15           an initial image processing condition determination section for determining an initial image processing condition in accordance with the image obtained by said image obtaining section;

20           an image processing condition determination section for determining in accordance with an operation an image processing condition having a desired deviation from the initial image processing condition determined by said initial image processing condition determination section;  
and

25           an image processing condition setting section for setting up the image processing condition determined by said image processing condition determination section to said image processing apparatus.

2. An image processing condition setting  
apparatus according to claim 1, further comprising an  
association defining section defining an association  
between parameter values of a first parameter in which  
5 values applied to points on a predetermined path in a  
parameter space defined by a plurality of sorts of second  
parameters defining a deviation from the initial image  
processing condition, of the image processing condition,  
are given as parameter values, and combinations of  
10 parameter values of said plurality of sorts of second  
parameters corresponding to the points on the predetermined  
path,

wherein said image processing condition  
determination section is designated by the parameter values  
of the first parameter in accordance with an operation, and  
determines, referring to the association defined by said  
association defining section, the image processing  
condition having the deviation consisting of the  
combinations of parameter values of said plurality of sorts  
20 of second parameters, associated with the designated  
parameter values.

3. An image processing condition setting  
apparatus according to claim 2, wherein said association  
25 defining section is a storage section for storing a table  
in which the association is described.

4. An image processing condition setting apparatus according to claim 2, wherein said association defining section is a storage section for storing a functional formula of parameter values of the second parameter wherein parameter values of the first parameter  
5 are given in form of argument.

5. An image processing condition setting apparatus according to claim 1, further comprising a first storage section for storing a deviation of the image processing condition determined by said image processing condition determination section from the initial image processing condition determined by said initial image processing condition determination section.  
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15 6. An image processing condition setting apparatus according to claim 2, further comprising a second storage section for storing parameter values of the first parameter representative of a deviation of the image processing condition determined by said image processing condition determination section from the initial image processing condition determined by said initial image processing condition determination section.  
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25 7. An image processing condition setting apparatus according to claim 1, further comprising a display section for displaying a handler for a deviation

adjustment from the initial image processing condition determined by said initial image processing condition determination section,

wherein said image processing condition  
5 determination section recognizes a desired deviation upon receipt of an operation of the displayed handler and determines the image processing condition having a desired deviation from the initial image processing condition.

10               8. An image processing condition setting apparatus according to claim 1, wherein said image processing condition determination section produces a plurality of images by a plurality of image processing based on the image processing condition having deviations mutually different on the image processing conditions for the initial image processing condition determined by said initial image processing condition, and determines the image processing condition of the desired image upon receipt of designation of a desired image of the plurality 15 of images, in accordance with an operation.  
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25               9. An image processing condition setting apparatus according to claim 2, wherein said association defining section defines the association on a plurality of sorts of first parameter for a plurality of paths mutually different in the parameter space,

                  said image processing condition setting apparatus

further comprises a parameter selection section for selecting at a time a sort of first parameter from among the plurality of sorts of first parameter in accordance with an operation, and

5                 said image processing condition determination section produces a plurality of images subjected to an image processing based on the image processing condition for the parameter values of the first parameter selected by said parameter selection section, for the initial image processing condition determined by said initial image processing condition, and determines the image processing condition of the desired image upon receipt of designation of a desired image of the plurality of images, in accordance with an operation.

10                 10. An image processing condition setting apparatus according to claim 2, wherein said association defining section defines the association on a plurality of sorts of first parameter for a plurality of paths mutually different in the parameter space,

15                 said image processing condition setting apparatus further comprises a parameter selection section for selecting simultaneously two sorts of first parameter from among the plurality of sorts of first parameter in accordance with an operation, and

20                 said image processing condition determination section produces a plurality of images subjected to an

image processing based on the image processing condition  
for sets of the parameter values of the two sorts of first  
parameters selected by said parameter selection section,  
for the initial image processing condition determined by  
5 said initial image processing condition, and determines the  
image processing condition of the desired image upon  
receipt of designation of a desired image of the plurality  
of images, in accordance with an operation.

10           11. An image processing condition setting  
apparatus according to claim 10, wherein said image  
processing condition setting apparatus further comprises a  
display section for displaying the plurality of images  
produced by said image processing condition determination  
section on a two-dimensional basis in accordance with the  
15 parameter values of the two sorts of first parameters.

20           12. An image processing condition setting  
apparatus according to claim 1, wherein said image  
processing condition setting apparatus further comprises:  
25           an image processing section for performing an  
image processing for the image obtained by said image  
obtaining section in accordance with the initial image  
processing condition determined by said the initial image  
processing condition determination section;  
              a display section for displaying a handler for a  
deviation adjustment from the initial image processing

condition determined by said initial image processing  
condition determination section and an image subjected to  
the image processing by said image processing section, and  
an indication section for indicating a microscopic  
area on the image displayed on said display section in  
accordance an operation,

wherein said image processing condition  
determination section recognizes a desired deviation as to  
the microscopic area on the image indicated by said  
indication section in accordance with an operation of said  
handler and determines the image processing condition in  
which the desired deviation is reflected on the microscopic  
area.

13. An image processing condition setting program  
storage medium storing an image processing condition  
setting program, wherein when the image processing  
condition setting program is executed by a computer system,  
said computer system serves as an image processing  
condition setting apparatus for determining an image  
processing condition defining contents of an image  
processing to set up the image processing condition to an  
image processing apparatus for executing the image  
processing in accordance with the determined image  
processing condition, said image processing condition  
setting program comprising:

an image obtaining section for obtaining an image

according to an original image to be subjected to an image processing in said image processing apparatus;

an initial image processing condition determination section for determining an initial image processing condition in accordance with the image obtained by said image obtaining section;

an image processing condition determination section for determining in accordance with an operation an image processing condition having a desired deviation from the initial image processing condition determined by said initial image processing condition determination section; and

an image processing condition setting section for setting up the image processing condition determined by said image processing condition determination section to said image processing apparatus.

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